Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application and annexes to the International Preliminary Examination Report.

- 1. (Currently Amended) A composition for enhancing an immune response in an animal comprising:
 - (a) a virus-like particle;
 - (b) an immunostimulatory nucleic acid; wherein said immunostimulatory nucleic acid (b) is packaged within is bound to said virus-like particle (a);
 - (c) at least one antigen, wherein said antigen is mixed with or coupled to said virus-like particle (a); and
 - (d) at least one toll-like receptor (TLR) ligand; wherein said immunostimulatory nucleic acid (b) activates a TLR that is different than the TLR activated by the ligand (d).
- 2. (Original) The composition of claim 1, wherein said TLR ligand (d) is mixed with said VLP.
- 3-4. (Cancelled)
- 5. (Currently Amended) The composition of any one of the preceding claims claim 1, wherein said ligand (d) is a ligand for TLR 4.
- 6-9. (Cancelled)

- 5 -
- (Currently Amended) The composition of any one of claims 1 to 7 and claim 9
 claim 1, wherein said immunostimulatory nucleic acid is an unmethylated CpGcontaining oligonucleotide.
- 11-13. (Cancelled)
- 14. (Currently Amended) The composition of claim 10, wherein the CpG motif of said unmethylated CpG-containing oligonucleotide is part of a palindromic sequence.
- 15. (Original) The composition of claim 5, wherein said palindromic sequence is GACGATCGTC (SEQ ID NO: 39).
- 16. (Currently Amended) The composition of claim 10, wherein said unmethylated CpG-containing oligonucleotide comprises, or alternatively consists essentially of, or alternatively consists of the sequence GGG GGG GGG GGA CGA TCG TCG GGG GGG GGG (SEQ ID NO: 54).
- 17-32. (Cancelled)
- 33. (Currently Amended) The composition of any of the preceding claims claim 1, wherein said immunostimulatory nucleic acid (b) is an unmethylated CpG-containing oligonucleotide and wherein said ligand (d) is a ligand for TLR 1, 2, 3, 4, 5, 6, 7, 8, 10 or 11.
- 34. (Currently Amended) The composition of any of the preceding claims claim 33, wherein said immunostimulatory nucleic acid (b) is an unmethylated CpG-containing oligonucleotide and wherein said ligand (d) is a ligand for TLR4.
- 35-40. (Cancelled)

- 6 -

41. (Currently Amended) The composition of any one of claims 1 to 38-claim 1, wherein said virus-like particle comprises recombinant proteins, or fragments thereof, of a RNA-phage, wherein said RNA-phage is bacteriophage Qβ or bacteriophage AP205.

42-46. (Cancelled)

- 47. (Currently Amended) The composition of elaim 46, claim 1, wherein said antigen (c) is isolated from a natural source, wherein said natural source is selected from the group consisting of:
 - (a) pollen extract;
 - (b) dust extract;
 - (c) dust mite extract;
 - (d) fungal extract;
 - (e) mammalian epidermal extract;
 - (f) feather extract;
 - (g) insect extract;
 - (h) food extract,
 - (i) hair extract;
 - (j) saliva extract; and
 - (k) serum extract.
- 48. (Currently Amended) The composition of any one of claims 1 to 44 claim 1, wherein said antigen (c) is derived from the group consisting of:
 - (a) viruses;
 - (b) bacteria;
 - (c) parasites;
 - (d) prions;
 - (e) tumors;
 - (f) self-molecules;

- 7 -
- (g) non-peptidic hapten molecules;
- (h) allergens; and
- (i) hormones.
- 49. (Cancelled)
- 50. (Currently Amended) The composition of elaim49 claim 1, wherein said antigen
 (c) is a tumor antigen, wherein said tumor antigen is selected from the group consisting of:
 - (a) Her2;
 - (b) GD2;
 - (c) EGF-R;
 - (d) CEA;
 - (e) CD52;
 - (f) human melanoma protein gp100;
 - (g) human melanoma protein melan-A/MART-1;
 - (h) tyrosinase;
 - (i) NA17-A nt protein;
 - (j) MAGE-3 protein;
 - (k) p53 protein;
 - (l) HPV16 E7 protein;
 - (m) an analogue of any one of the antigens from (a) to (l); and
 - (n) antigenic fragments of any one of the tumor antigens from (a) to (m).
- 51. (Cancelled)
- 52. (Currently Amended) The composition of claim 51 claim 1, wherein said antigen (c) is an allergen, wherein said allergen is derived from the group consisting of:
 - (a) pollen extract;
 - (b) dust extract;

- 8 -

| (| c) | dust | mite | extract: |
|----|----|------|--------|----------|
| ι, | ~, | uust | 111110 | OAHUUL |

- (d) fungal extract;
- (e) mammalian epidermal extract;
- (f) feather extract;
- (g) insect extract;
- (h) food extract;
- (i) hair extract;
- (j) saliva extract; and
- (k) serum extract.
- 53. (Currently Amended) The composition of claim 1, wherein said antigen (c) is an allergen, wherein said allergen is selected from the group consisting of:
 - (a) trees;
 - (b) grasses;
 - (c) house dust;
 - (d) house dust mite;
 - (e) aspergillus;
 - (f) animal hair;
 - (g) animal feather;
 - (h) bee venom;
 - (i) animal products; and
 - (j) plant products.
- 54. (Currently Amended) The composition of any one of claims 1 to 44-claim 1, wherein said antigen (c) is selected from the group consisting of:
 - (a) bee venom phospholipase A_2 ;
 - (b) ragweed pollen Amb a 1;
 - (c) birch pollen Bet v I;
 - (d) white faced hornet venom 5 Dol m V;
 - (e) house dust mite Der p 1;

- (f) house dust mite Der f 2;
- (g) house dust mite Der 2;
- (h) dust mite Lep d;
- (i) fungus allergen Alt a 1;
- (j) fungus allergen Asp f 1;
- (k) fungus allergen Asp f 16; and
- (l) peanut allergens.
- 55. (Currently Amended) The composition of any one of claims 1 to 44-claim 1, wherein said antigen (c) is a cytotoxic T cell epitope, a Th cell epitope or a combination of at least two of said epitopes, wherein said at least two epitopes are bound directly or by way of a linking sequence.

- 9 -

- 56. (Cancelled)
- 57. (Currently Amended) A method for enhancing an immune response in an animal comprising introducing into said animal a composition comprising a composition of any one of claims 1 to 56 claim 1.
- 58-62. (Cancelled)
- 63. (Currently Amended) A method Use of a composition according to any of claims

 1 to 56 or use of a vaccine according to claim 60 in the manufacture of a

 pharmaceutical—for the treatment of a disorder or disease comprising, and

 preferably selected from the group consisting of, allergies, tumors, chronic diseases

 and chronic viral diseases, the method comprising introducing into said animal a

 composition of claim 1.[.]
- 64. (New) The composition of claim 34, wherein said ligand (d) is LPS or a derivative thereof.